## WHAT IS CLAIMED IS:

1		1.	A method of treating a patient with Pompe's disease, comprising:
2	administering	to the p	atient a therapeutically effective amount of human acid alpha
3	glucosidase.		
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1		3.	The method of claim 1, wherein the patient is administered at least 60
2	mg/kg body w		
2	mg/kg body w	oight pe	of week.
1		4.	The method of claim 1, wherein the patient is administered at least
2	120 mg/kg bo	dy weig	ht per week.
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1		5.	The method of any of claims 1-4, wherein the patient is administered a
2	single dosage	of alpha	a-glucosidase per week.
1		6.	The method of any of claim 1-4, wherein the patient is administered
2	three dosages	of alpha	a-glucosidase per week.
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1		<b>7.</b> ,	The method of any of claims 1-4, wherein the amount is administered
2	per week for a	a period	of at least 24 weeks.
1		8.	The method of claim 1, wherein the alpha-glucosidase is administered
2	intravenously	•	
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1	·	9.	The method of claim 1, wherein the alpha-glucosidase was produced
2	in milk of a tr	ansgenio	c mammal.
1		10.	The method of claim 1, wherein the patient has infantile Pompe's
2	disease.		
1		11.	The method of claim 10, wherein the patient survives to be at least
2	one year old.		•
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1	14.	The method of claim 1, wherein the alpha-glucosidase is
2	predominantly in a 11	0 kD form.
1	15.	The method of claim 1, further comprising monitoring a level of
2	human acid alpha gluc	cosidase in the patient.
1	16.	The method of claim 15, further comprising administering a second
2	dosage of human acid	alpha glucosidase if the level of alpha-glucosidase falls below a
3	threshold value in the	patient.
1	17.	The method of claim 1, wherein the human alpha glucosidase is
2	administered intraven	ously and the rate of administration increases during the period of
3	administration.	
1	18.	The method of claim 17, wherein the rate of administration increases
2	by at least a factor of	ten during the period of administration.
1	19.	The method of claim 17, wherein the rate of administration increases
2	by at least a factor of	ten within a period of five hours.
1	20.	The method of claim 17, wherein the patient is administered a series
2	of at least four dosage	es, each dosage at a higher strength than the previous dosage.
1	21.	The method of claim 20, wherein the dosages are a first dosage of
2	0.03-3 mg/kg/hr, a se	cond dosage of 0.3-12 mg/kg/hr, a third dosage of 1-30 mg/kg/hr and a
3	fourth dosage of 2-60	mg/kg/hr.
1	22.	The method of claim 21, wherein the dosages are a first dosage of 0.1
2	1 mg/kg/hr, a second	dosage of 1-4 mg/kg/hr, a third dosage of 3-10 mg/kg/hr and a fourth
3	dosage of 6-20 mg/kg	z/hr.
1	23.	The method of claim 22, wherein the dosages are a first dosage of
2	0.25-4 mg/kg/hr. a se	econd dosage of 0.9-1.4 mg/kg/hr, a third dosage of 3.6-5.7 mg/kg/hr

0.25-4 mg/kg/hr, a second dosage of 0.9-1.4 mg/kg/hr, a third dosage of 3.6-5.7 mg/kg/hr

and a fourth dosage of 7.2-11.3 mg/kg/hr.

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1	24.	The method of claim 23, wherein the dosages are a first dosage of
2	0.3 mg/kg/hr, a secon	d dosage of 1 mg/kg/hr, a third dosage of 4 mg/kg/hr and a fourth
<b>3</b> ,	dosage of 12 mg/kg/h	ur.
1	25.	The method of any of claims 20-24, wherein the first, second, third
2	and fourth dosages a	re each administered for periods of 15 min to 8 hours.
1	26.	The method of any of claims 20-24, wherein the first, second, third
2	and fourth dosages a	re administered for periods of 1 hr, 1hr, 0.5 hr and 3 hr respectively.
1	27.	A pharmaceutical composition comprising human acid alpha
2	.glucosidase, human	serum albumin, and a sugar in a physiologically acceptable buffer in
3	sterile form.	
1	28.	The pharmaceutical composition of claim 17 comprising human
2	acid alpha glucosida	se, human serum albumin, and glucose in sodium phosphate buffer.
1	29.	A pharmaceutical composition comprising alpha glucosidase,
2	mannitol and sucros	e in an aqueous solution.
1	30.	The pharmaceutical composition of claim 27, wherein the sugar
2	comprises mannitol	and sucrose and the concentration of mannitol is 1-3% w/w of the
3	aqueous solution and	d the concentration of sucrose is 0.1 to 1% w/w of the aqueous
4	solution.	
1	31.	The pharmaceutical composition of claim 27, wherein the
2	concentration of ma	nnitol is 2% w/w and the concentration of sucrose is 0.5% w/w.
1	32.	A lyophilized composition produced by lyophilizing a
2	pharmaceutical com	position comprising human acid glucosidase, mannitol and sucrose in
3	aqueous solution.	
1	33.	A pharmaceutical composition prepared by
2		lyophilizing a first composition comprising human acid alpha-
3	glucosidase, mannit	tol, sucrose and an aqueous solution to produce a second composition;
4	and reconstituting the	he lyophilized composition in saline to produce a third composition.

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1	34. The pharmaceutical composition of claim 33, wherein
2	the human acid alpha-glucosidase is at 5 mg/ml in both the first and third
3	composition, the mannitol is at 2 mg/ml in the first composition, the sucrose is at 0.5
4	mg/ml in the first composition, and the saline used in the reconstituting step is 0.9% w/w.